



# IEEE

## Ottawa Section



**Seminar by IEEE Ottawa Power and Energy Chapter, Reliability Chapter,  
Educational Activities, and Algonquin College Student Branch**

*The IEEE Ottawa Section is inviting all interested IEEE members and nonmembers to a seminar on*

## **Impact of Renewable Energy Resources on the Electrical Power System Stability**

by

**Prof. Dr. Mo El-Hawary, IEEE Fellow, IEEE PES Distinguished Lecturer  
Professor, Dalhousie University, Halifax, Nova Scotia, Canada**

**DATE:** Friday, April 17, 2009.

**TIME:** Refreshments, Registration and Networking: 06:30 p.m.; Seminar: 07:00 p.m. – 08:00 p.m.

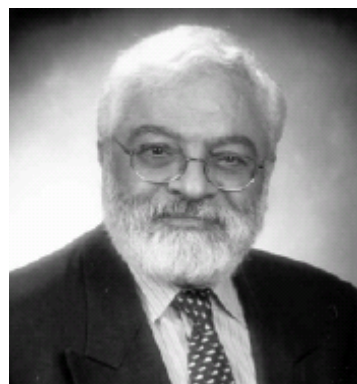
**PLACE:** Algonquin College, [1385 Woodroffe Ave., Advanced Technology Building \(T\)](#), Room T129.

**PARKING:** No fee at the parking lots 8 and 9 at the time of seminar. Please respect restricted areas.

### Abstract

Renewable energy resources for electric power generation are gaining momentum as the next great green hope to substitute for less environmentally-friendly electrical energy sources. This trend places new challenges to the electric system operator in assuring both angle and voltage stability of the system. This need becomes more significant with the increase in penetration levels of renewable generation sources. At this seminar, the generator types and their dynamic performance and interactions with electric grid will be discussed. Reference will be made to situations where special devices and mitigation technologies are deployed successfully.

### Dr. El-Hawary's Bio



Mohamed E El-Hawary (F) is Professor of Electrical and Computer Engineering at Dalhousie University, Halifax, Nova Scotia, Canada. He has a B.Sc., University of Alexandria, and a Ph.D. in Electrical Engineering, University of Alberta. He received the 1999 IEEE Power Engineering Educator Award, and IEEE EAB Meritorious Achievement Award in Continuing Education. He served as Chair of the Power System Operations Committee, Life Long Learning subcommittee, the Operating Economics Subcommittee and a member of the Awards Committee of PES. He is Founding Editor, Power Engineering Letters, and Associate Editor for two PES Journals. He authored ten textbooks and monographs, is Editor of the IEEE Press Power Engineering Series, and Electrical Power Engineering, McGraw-Hill Encyclopedia of Science and Technology. He consults frequently and taught over 100 professional development offerings in numerous parts of the world.

Dr. El-Hawary is a member of the IEEE Fellows Committee, and served as a member of the 2006-2007 Publications Services and Products Board, and Editor-in-Chief of the IEEE Press. He served as Secretary of IEEE and member of the ExCom (2004-2005), Director Region 7 (2002-2003), and member of the Board of IEEE (2002-2005). He was also chair of IEEE Main prize Paper Awards Committee, and the IEEE Awards Board. He is a distinguished lecturer for the Power & Energy and Industry Applications Societies. He received the IEEE Canada McNaughton Medal, and the IEEE Millennium Medal.

**Admission:** Free. Registration required.

Please register by e-mail contacting: [Wahab Almuhtadi](#), [Branislav Djokic](#), [Raed Abdullah](#), [Patrick Couture](#)